



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,561	03/29/2001	Kazunobu Uehara	F-6930	4964

7590

02/12/2004

Jordan and Hamburg
122 East 42nd Street
New York, NY 10168

EXAMINER

WHITE, CARMEN D

ART UNIT	PAPER NUMBER
----------	--------------

3714

DATE MAILED: 02/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/820,561

Applicant(s)

UEHARA ET AL.

Examiner

Carmen D. White

Art Unit

3714

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 November 2003.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 6.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

Art Unit: 3714

Drawings

Applicant's drawing changes have been approved by the examiner. Formal drawings, including the drawing changes are required upon indication of allowable subject matter.

Specification

Applicant's substitute specification, filed on November 10, 2003 has been entered.

Claim Objections

Claims 5-8 are objected to because of the following informalities: line 8, contains the word "flame", which appears to be a typographical error. Appropriate correction is required.

Claims 7-8 are objected to because of the following informalities: line 4 recites "said the processing time". The use of "said" and "the" is redundant. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-12 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2 recites the limitation "said first display move" in line 5. There is insufficient antecedent basis for this limitation in the claim.

Art Unit: 3714

Claims 1-4 recite the limitations ""relatively light" and "relatively heavy" in lines 6-7. Similarly claims 5-8 recites this language in lines 9-11; similarly claims 9-12 recite this language in lines 6, 10 and 12; similarly . This language is makes it difficult to ascertain the scope of the claim. The use of the term relatively does not make it clear how heavy or light the instant claimed load is.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 5 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over ***Miller*** (6,121,978).

Regarding claims 1, 5 and 9, Miller teaches a method for displaying an image by outputting image data by each frame to a display device, comprising steps of judging a scale of a processing load performed within a frame; alternatively setting a mode of display {changing the scaling} in one of a first mode when the load is judged to be light {adequate for a smaller screen} and a second mode when processing load is judged to be heavy {too much for a smaller screen display} (col. 1, lines 10-23); and displaying the image data on the display device with a different pixel arrangement for each frame when in said first display mode than in said second display mode (col. 1, lines 24-42). While Miller teaches different pixel arrangements, including pixel replication in one display mode and expansion blending in another display mode, Miller is silent regarding

Art Unit: 3714

the explicit disclosure of a different pixel arrangement for each frame when in a first display mode and an identical pixel arrangement for displaying image data in a second mode. It would have been obvious to a person of ordinary skill in the art at the time of the invention to include these explicit features in the pixel arrangement of Miler as a matter of choice well within the functional capabilities of Miler. This would further enable the scaling system of Miler to reduce memory requirements and minimize graphics distortion (col. 2, lines 1-3).

Allowable Subject Matter

Claims 2-4, 6-8 and 10-11 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and claim objections of claims 6-8.

Claims 2-4, 6-8 and 10-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The cited prior art does not teach the features of *the output of image data to a display device with different pixel arrangements for each other for an odd number frame and an even number frame; the judging of a scale load by comparing the processing time with a predetermined reference value; and switching the display mode when the processing time is continuously less than a reference value during a predetermined number of frames.*

Art Unit: 3714

Examiner's Response to Applicant's Remarks

Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection, which was necessitated by Applicant's amendments to the instant claims. The examiner has cited Miler (6,121,978), above, against the claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

USPTO Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carmen D. White whose telephone number is 703-308-

Art Unit: 3714


5275. The examiner can normally be reached on Monday through Friday, 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Hughes can be reached on 703-308-1806. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



cdw



S. THOMAS HUGHES
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700